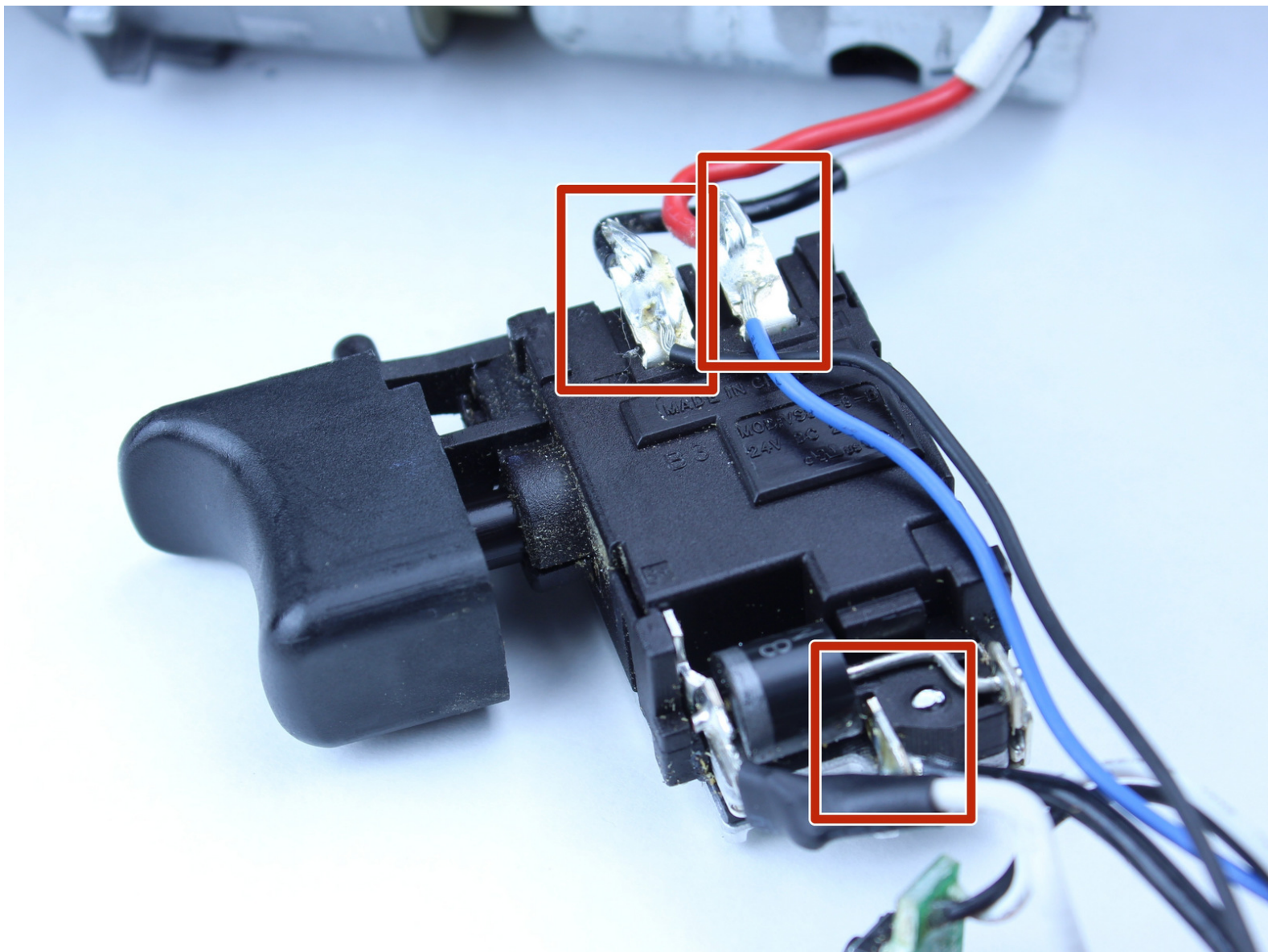




Ridgid R86034 Trigger Assembly Replacement

Replace a broken trigger assembly to return your RIDGID X4 18V Lithium-Ion Impact Driver to working condition.

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INTRODUCTION

The trigger is a multi-speed switch and requires replacing the whole assembly. Soldering is necessary for this guide. Please familiarize yourself with the iFixit guide on [Soldering](#) before starting.



TOOLS:

- [Metal Spudger](#) (1)
 - [T10 Torx Screwdriver](#) (1)
 - [T15 Torx Screwdriver](#) (1)
 - [Soldering Workstation](#) (1)
 - [Wire stripper/crimping tool](#) (1)
 - [Flush Wire Cutters](#) (1)
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Step 1 — Housing



- Peel the black rubber cover off of the casing using the flat metal spudger. The rubber cover is securely attached to the housing so some force is necessary.
- ☑ When putting the rubber cover back the driver remember that its orientation is important. Rotate the casing until it fits onto the housing with no gaps between it and the clear cover.

Step 2



- Remove plastic cover with your hands. The plastic cover should be much easier to remove than the rubber cover. There is no need to force it off.

Step 3



- Unscrew the four 16 mm long screws from back panel with a T10 Torx Screwdriver.
- Use a firm grip to peel the the back panel off. It is sealed tight and requires a good amount of force to remove.


Step 4




- Unscrew the eight 15 mm T10 Torx screws from the housing
- ⓘ The screw hole located nearest the battery port is deep and small. Most screwdrivers with replaceable bits will **not** fit into the hole. Instead use a conventional screwdriver that fits.

Step 5

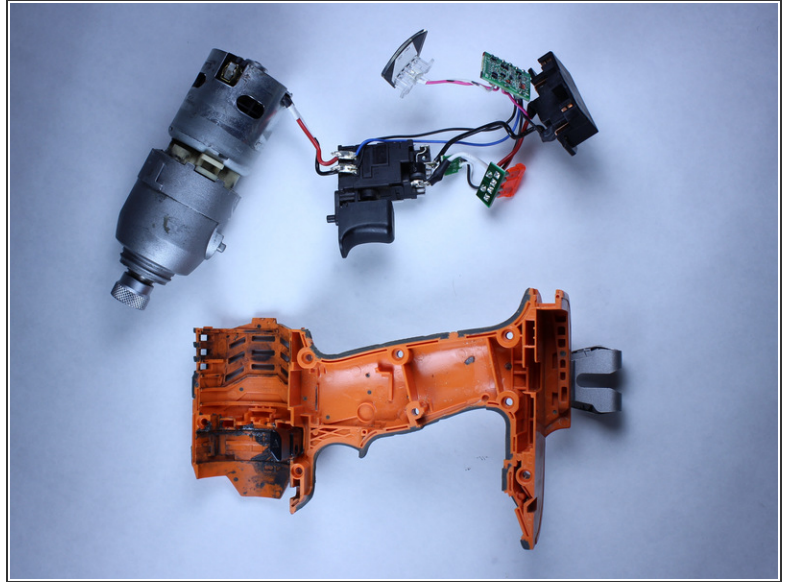



 Place the driver flat on a table before completely separating the two halves of the housing so components don't fall out during opening.



- Pry apart the two halves of the housing at the back side of the driver using the metal spudger .

 The housing is easier to remove if you pry from multiple sides.

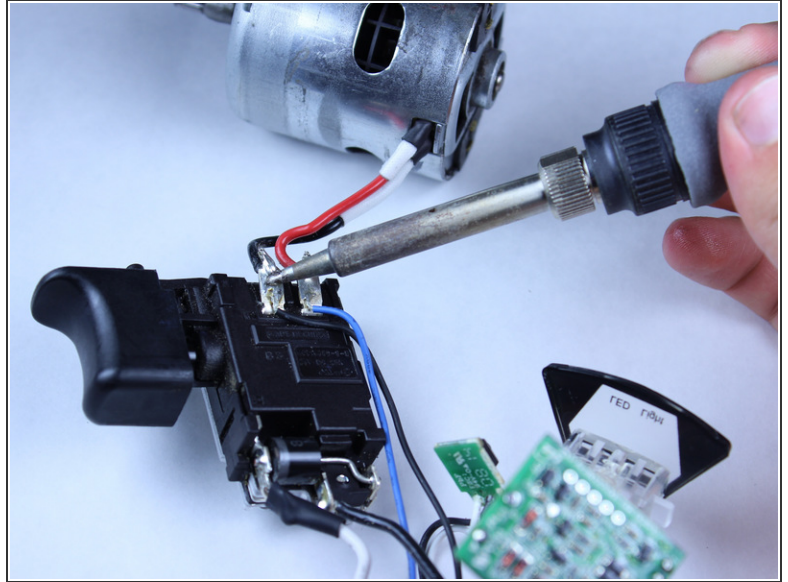
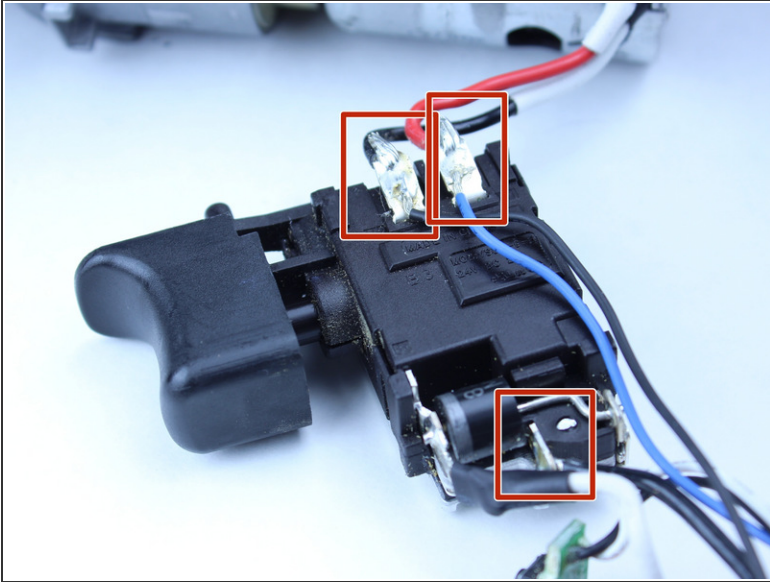
Step 6



 Do not remove the direction switch. It isn't necessary.

- Pull out **all** electrical components from housing by hand. First, lift out the motor. Next, follow the wires, lifting out components until all components are outside of the housing.
-  With two exceptions all of the components should come out of their respective slots with ease and require little force to lift out. The circuit board located nearest the battery pack and the LED light will be hard to pull out.
-  When reassembling remember to precisely place all components in their correct slots with their correct orientations.

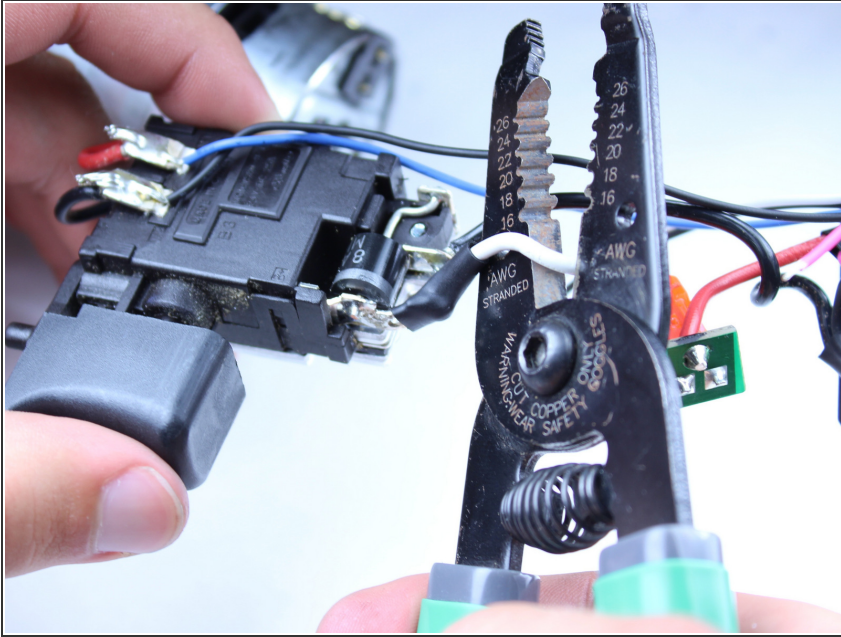
Step 7 — Trigger Assembly



⚠ DO NOT attempt to desolder the white shrink wrapped wire located at the bottom of left of the trigger assembly. It requires advanced soldering techniques and isn't necessary.

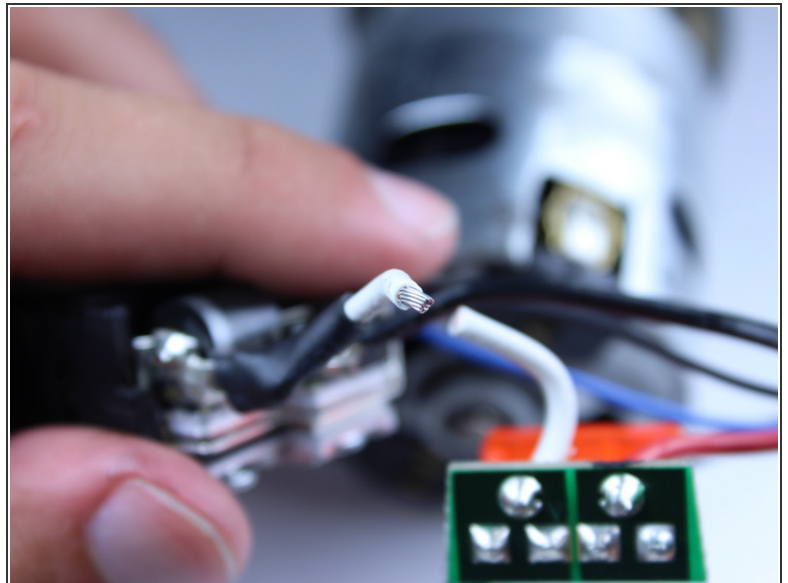
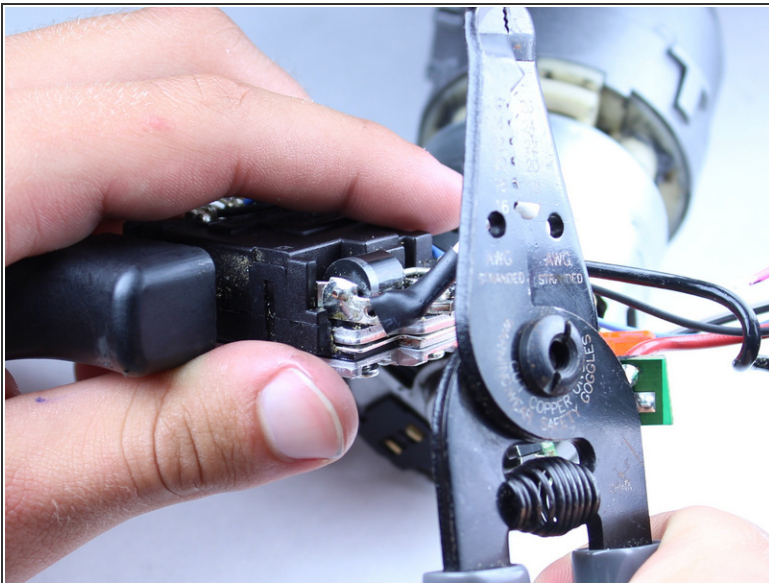
- Desolder and remove the external wires from the trigger assembly except for the white wire on the bottom left.
- ⓘ You should have desoldered five wires and left one thick white wire attached to the assembly.
- ⓘ If you don't know how to desolder, or need to brush up on your skills, iFixit posted a [How To Solder and Desolder Connections guide](#).
- ☑ Take note of where each wire is attached to the trigger assembly for resoldering.

Step 8



- Cut the thick white wire coming out of the bottom of the assembly with flush wire cutters as close to the terminal on the trigger assembly as possible.

Step 9

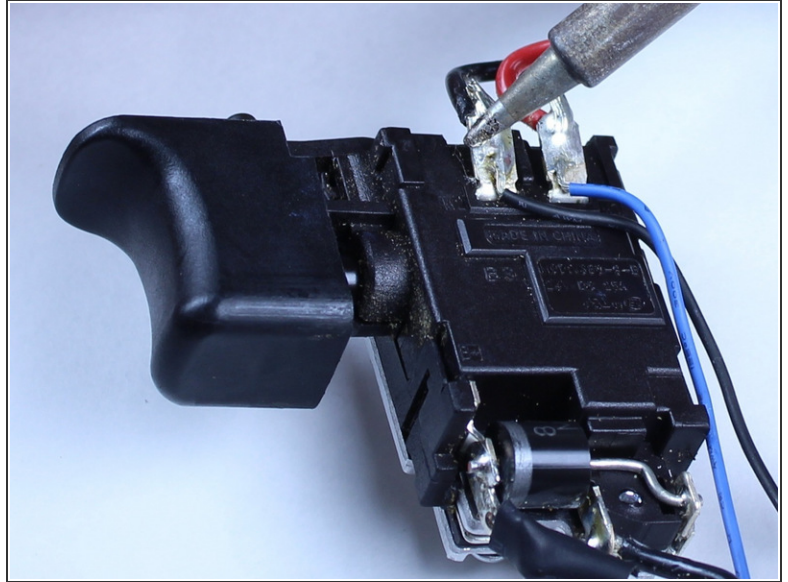
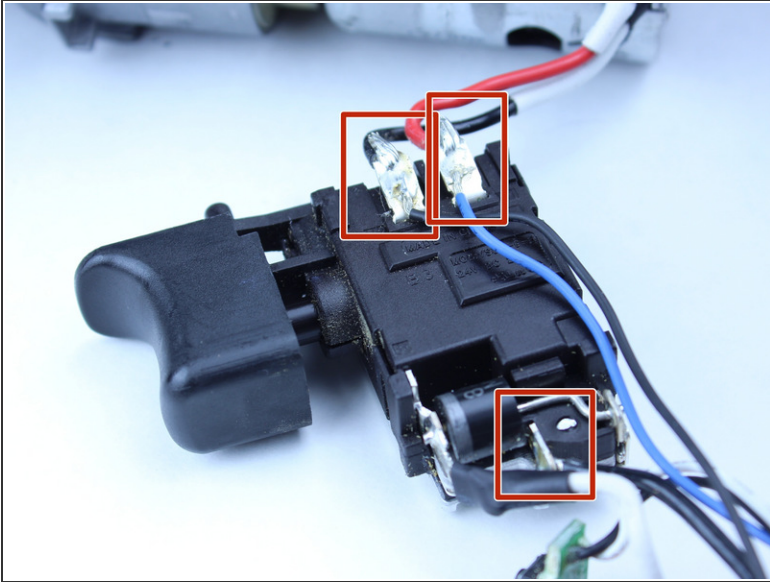


⚠ Steps three through five are for your newly bought trigger assembly.

⚠ Be careful not to cut the wire during this step.

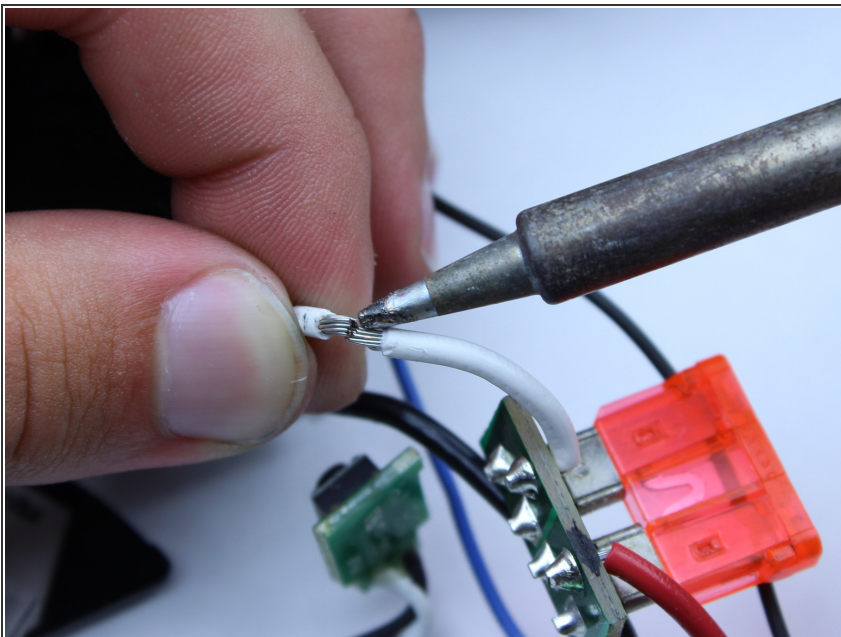
- Strip both the white wire of your **new** trigger assembly, and the white wire coming out of the translucent orange fuse about a quarter inch with 16 gauge wire strippers.

Step 10



- Resolder all loose wire ends, except the thick white wire, to their respective spots on the trigger mechanism.

Step 11



- Solder the two loose ends of the thick white wire.
- Wrap the newly soldered joint with electrical tape to ensure that the circuit doesn't short.

To reassemble your device, follow steps one through seven in reverse order.

